

ABSTRACT

A polymeric electrolyte and a lithium battery employing the same. The polymeric electrolyte includes a cross-linked polyether urethane prepared by reacting a pre-polymer having a polyethylene oxide backbone and terminated with NCO, with a cross-linking agent, organic solvent and lithium salt. Since the polymeric electrolyte is electrochemically stable, a lithium battery having improved reliability and safety can be obtained by employing the polymeric electrolyte.